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Precision Decelerator Systems

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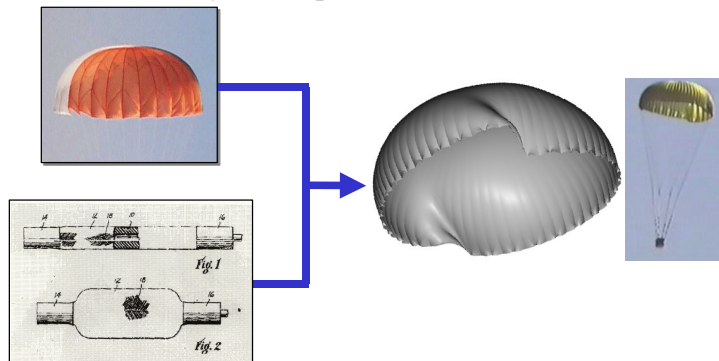
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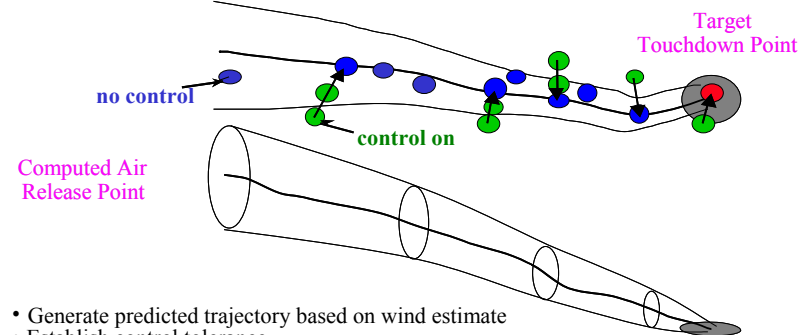
Precision Decelerator Systems Problem Statement

Develop and demonstrate a guidance and control system that steers a cargo parachute to a target point within the prescribed accuracy in the presence of uncertain winds.



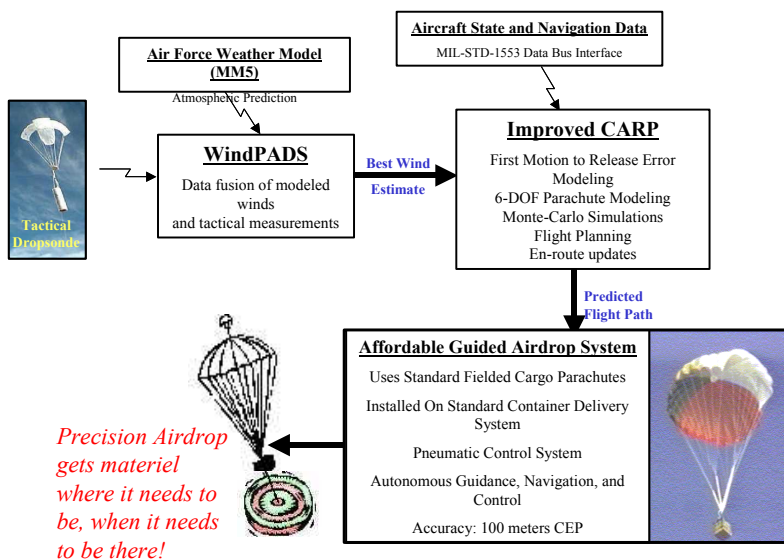
Pneumatic Muscle Actuators (1940 Patent Drawing)

The Solution - Control Strategy



- Generate predicted trajectory based on wind estimate
- Establish control tolerance
- Compare actual position to predicted trajectory
- 'Drive' to predicted trajectory

New World Vista Precision Airdrop Concept



Results

